FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

156046

INTERNATIONAL APPLICATION NO. PCT/JP05/03832

INTERNATIONAL FILING DATE 01 March 2005

PRIORITY DATE CLAIMED 03 March 2004

282145US90PCT

TITLE OF INVENTION

ETCHING SOLUTION, METHOD OF ETCHING AND PRINTED WIRING BOARD

APPLICANT(S) FOR DO/EO/US Tsunehisa TAKAHASHI, et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: \boxtimes This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 1. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below. The US has been elected (Article 31). 4. A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. 🛛 is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 🗌 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) \bowtie

- are attached hereto (required only if not communicated by the International Bureau). a. 🗌
 - b. 🔲 have been communicated by the International Bureau.
 - c. 🗆 have not been made; however, the time limit for making such amendments has NOT expired.
 - d. 🛛 have not been made and will not be made.
- An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8.
- 9. \boxtimes An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- An English language translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)).
- A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11.
- A copy of the International Search Report (PCT/ISA/210). \times 12.

Items 13 to 23 below concern document(s) or information included:

- \boxtimes . 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14
- 15. \times A FIRST preliminary amendment.
- 16. A SECOND or SUBSEQUENT preliminary amendment.
- 17. A substitute specification.
- 18. \times A power of attorney and/or change of address letter.
- 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
- 20. A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- 21. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
- 22. Express Mail Label No.

IAP20 Rec'd PCT/PTO 14 DEC 2005

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 FFR 1.5)		37 CFR 1.5)	1	INTERNATIONAL APPLICATION NO. PCT/JP05/03832			ATTORNEY'S DOCKET NUMBER 282145US90PCT			
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	ns or information:									
	on Data Sheet/Noti 04/Cited Reference									
The followin	g fees have been s	submitted:				CA	LCULATIONS	PTO USE		
	•				\$300	\$	\$300.00			
	ation fee (37 CFR									
If the written opin	ion prepared by IS	A/US or the	international preliminar y provisions of PCT Arti	y exa	amination report	\$	\$200.00			
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26. Search	fee (37 CFR 1.492	2(b)) or the Interna	ational preliminary exan	ninati	ion report					
by IPEA/U	S indicates all clair	ns satisfy pr	ovisions of PCT Article	33(1)-(4) \$0		m 400 00			
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sequence listing in an The fee is \$:	e for specification ting in compliance electronic medium 250 for each additi	with 37 CFI) (37 CFR 1 onal 50 she	ns filed in paper over 10 R 1.821(c) or (e) or com .492(j)). ets of paper or fraction	ipute there	of.					
Total Sheets	Extra Sheets							·		
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			search fee, examination the national stage (37 (\$				
CLAIMS	NUMBER F	ILED	NUMBER EXTRA		RATE					
Total claims	22	- 20 =	2	x	\$50.00	\$	\$100.00			
Independent clair	ms 2	- 3=	0	x	\$200.00	\$	\$0.00			
MULTIPLE DEPE	ENDENT CLAIMS	(if applicable	e) 🗆	+	\$360.00	\$	\$0.00			
		\$	\$1,000.00							
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.							\$0.00			
SUBTOTAL =							\$1,000.00			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							\$ \$0.00			
TOTAL NATIONAL FEE =							\$1,000.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +						\$	\$0.00			
			TOTAL FEE	SE	NCLOSED =	\$	\$ \$1,000.00			
						Amo	ount to be	\$		

\$

Amount to be

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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a. (A check in the amount of \$	to cover the කිරීම මැලි	es:is.enclosed / / / / /	14 DEC 2005					
b. {		Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed.	ase charge my Deposit Account No in the amount of \$							
c. 1	X	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No A duplicate copy of this sheet is enclosed.								
d. i	\boxtimes	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.										
SEN	ND A	LL CORRESPONDENCE TO:		fu	wer Sochos					
Cus	ton	er Number		SIGNATURE						
228	50			Masayasu Mori						
			_	NAME						
				47,301						
			-	REGISTRATION NUMBER						
				Dec.	14 2005					
			_	DATE						
			Surinder Sad	har						
		F	Registration No. (34,423						

Docket No.

282145US90PCT

IN RE APPLICATION OF: Tsunehisa TAKAHASHI, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/JP05/03832

AP20 Rec's PulyPTO 14 DEC 2003

FILED:

Herewith

FOR:

ETCHING SOLUTION, METHOD OF ETCHING AND PRINTED WIRING BOARD

COMMISSIONER FOR PATENTS
- ALEXANDRIA, VIRGINIA 22313

SIR:

Transmitted herewith is an amendment in the above-identified application.

- No additional fee is required
- ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.
- Additional documents filed herewith:

Credit Card Payment Form for \$1,000.00/PCT Transmittal Letter/Application Data Sheet/Notice of Priority/Preliminary Amendment/English Translation of Specification/Drawings (8 sheets)/Declaration/PCT/IB/304/International Search Report/Information Disclosure Statement/PTO-1449/Cited References (5)/Statement of Relevancy

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS		RATE		CALCULATIONS
TOTAL	22	MINUS	22	0	х	\$50	=	\$0.00
INDEPENDENT	2	MINUS	2	0	x	\$200	=	\$0.00
		☐ MULTIPLE DEPENDENT CLAIMS				\$360	=	\$0.00
TOTAL OF ABOVE CAI					LCU	JLATIC	NS	\$0.00
		☐ Reduction by 50% for filing by Small Entity						\$0.00
,		☐ Recordation of Assignment				\$40	=	\$0.00
		TOT					AL	\$0.00

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- ☐ Credit card payment form is attached to cover the fees in the amount of **§0.00**
- Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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